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# PUBLIC NOTICE

**File Number: NRS 15.058**

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Pursuant to Chapter 0400-4-7 of the Department's rules, the proposed activity described below has been submitted for approval under an Aquatic Resource Alteration Permit and §401 Water Quality Certification. This notice is intended to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. No decision has been made whether to issue or deny this application.

**APPLICANT:** Tennessee Department of Transportation  
Environmental Permits Section  
Suite 900, James K. Polk Bldg.  
505 Deaderick St.  
Nashville, TN 37243  
615-532-4578

**LOCATION:** Bulls Creek and wetland, SR109, Nashville, TN Sumner County  
(Lat:36.3482/Lon:-86.4388)

**PROJECT DESCRIPTION:** The applicant proposes to Widen SR109 impacting 0.103 acre of wetlands and 469 ft. of streams.

Impact 1: Latitude: 36.3482 Longitude:-86.4388  
Wetland Station 142+90 to Sta. 146+50+/- (Rt)  
Proposed filling of 0.103 acre of existing wetlands.

Wetland Debit: 0.103

Impact 2: Latitude: 36.3486 Longitude: -86.4391  
Bull's Creek Branch and intermittent tributary Station 147+40 and 146+40-147+30 (Rt)

Existing 70' of 5X10 ft. concrete box culvert and 270' of open stream on Bull's Creek Branch and 75' of intermittent tributary (to be filled) replaced with 187' of 12X6 ft. concrete box culvert with 26' contra costa energy dissipater and 30' of open channel at the inlet and 25' riprap lined channel at the outlet. Also, at this location a 36" ductile iron water lone crossing.

Debit: **360** (213' structure and 147' length loss)

Impact 3: Latitude: 36.3559 Longitude: -86.4391  
Bull's Creek and unnamed trib Station 172+30 (Lt) and 172+30 – 172+90  
(Lt)

Existing 112' of 8X6 ft. concrete box culvert and 195' of 72" CMP and 102' of 54" ductile iron pipe and 119' of open stream on Bull's Creek and 108' of intermittent tributary (to be relocated and riprap lined) replaced with 315' of 8X6 ft. concrete box culvert (replaces CMP and ductile Iron pipe) and retain 94 ft. of the existing 8X6' box culvert and extend it 25' at the outlet with at 41' of riprap at the inlet and 50' riprap at the outlet. Also, at this location a 36" ductile iron water lone crossing. Also, at this location a 36" ductile iron water lone crossing.

Debit **109** (structure<sub>replacement</sub> 468 - structure<sub>existing</sub> 409 = 59 - 31' length added= 28) + (109<sub>riprap</sub> X 0.75=81) 28+81=109

**Total Mitigation Required: 0.103 acre wetlands and 469 stream debits.** The applicant proposes mitigating wetland impacts by debiting, at a 2:1 ratio, 0.206 acre of available credit from the Harpeth Wetland Mitigation Bank. Stream impacts would be mitigated by purchase of 469 credits from the Tennessee Wildlife Resources Foundation in the Cumberland River (Old Hickory Lake) watershed.

**DEGRADATION:** In accordance with the Tennessee Antidegradation Statement (Rule 0400-40-03-.06), the division has determined that the proposed activities will not result in degradation to water quality.

**WATERSHED / WATERBODY DESCRIPTION:** Bulls Creek flows into Old Hickory Lake which is part of the Cumberland River Watershed. Old Hickory Lake Watershed is located in Middle Tennessee and includes parts of Davidson, Macon, Robertson, Smith, Sumner, Trousdale and Wilson counties. It is approximately 983 square miles and drains to the Cumberland River. For more information on this watershed please visit <http://www.state.tn.us/environment/water/watersheds/lower-tennessee-river.shtml>

Bull Creek (TN05130201001T\_0999) is in the Outer Nashville Basin (71h & 71i) ecoregion. The channel dimensions are as follows: channel bottom width 12', channel top width 15-20', water depth 2-6", and bank height 2-4'. Typical substrate in this section is comprised of bedrock, cobble and sand.

Bull Creek was assessed in 2014. It is not supporting its designated uses. The specific uses that are not meeting use support and the causes are as follows: Fish and Aquatic life due to nutrients and sedimentation. Therefore the stream is available for the proposed impacts to habitat.

**Stream Name / ID #:** Bull Creek (TN05130201001T\_0999)

**Ecoregion:** Outer Nashville Basin (71h & 71i)

**Stream Dimension:** Channel bottom width 12'  
Chanel top width 15-20'  
Water depth 2-6"  
Bank height 2-4'

**Substrate:** bedrock, cobble, sand

<b>Designated Use</b>	<b>Use Support</b>	<b>Causes</b>
Fish and aquatic life	not supporting	nutrients and sedimentation

Recreation	not supporting
Industrial water supply	not assessed
Irrigation	not assessed
Livestock watering & wildlife	not assessed

This stream is available for the proposed impacts to habitat.

**Assessment Date:** 2014

**PERMIT COORDINATOR:** Brian Canada

**FACTORS CONSIDERED:** In deciding whether to issue or deny a permit, the department will consider all comments of record and the requirements of applicable federal and state laws. In making this decision, a determination will be made regarding the lost value of the resource compared to the value of any proposed mitigation. The department shall consider practicable alternatives to the alteration. The department shall also consider loss of waters or habitat, diminishment in biological diversity, cumulative or secondary impacts to the water resource, and adverse impact to unique, high quality, or impaired waters.

**COMMENTING:** Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced. Send all written comments to the department's address listed below and to the attention of the permit coordinator.

**PUBLIC HEARING:** Interested persons may request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing. Send all public hearing request to the department's address listed below and to the attention of the permit coordinator.

**APPEAL:** A permit appeal may be filed, pursuant to T.C.A. §§ 69-3-105(i) and Rule 0400-40-05, by the permit applicant or by any aggrieved person who participated in the public comment period announced by this notice. This petition must be filed within THIRTY (30) DAYS after public notice of the issuance of the permit. The petition must specify what provisions are being appealed and the basis for the appeal. It should be addressed to the technical secretary of the Tennessee Board of Water Quality, Oil and Gas at the following address: Tisha Benton, Director, Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Ave, 11<sup>th</sup> floor, Nashville, TN 37243. Any hearing would be in accordance with T.C.A. §§69-3-110 and 4-5-301 et seq.

**FILE REVIEW:** The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address (listed below) for review and/or copying.

Tennessee Department of Environment & Conservation  
Division of Water Resources, Natural Resources Unit  
William R. Snodgrass Tennessee Tower  
312 Rosa L. Parks Avenue, 11th Floor  
Nashville, Tennessee 37243

# Index of Sheets (R.O.W.)

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3-3A	R.O.W. ACQUISITION TABLE
3B-3F	PROPERTY MAP
4-10	PRESENT LAYOUT
4A-10A	PROPOSED R.O.W. LAYOUT
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4C-10C	PROFILE OF PRIVATE DRIVES
11-13	CROSS-SECTIONS

## STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF PLANNING AND DEVELOPMENT

### SUMNER County

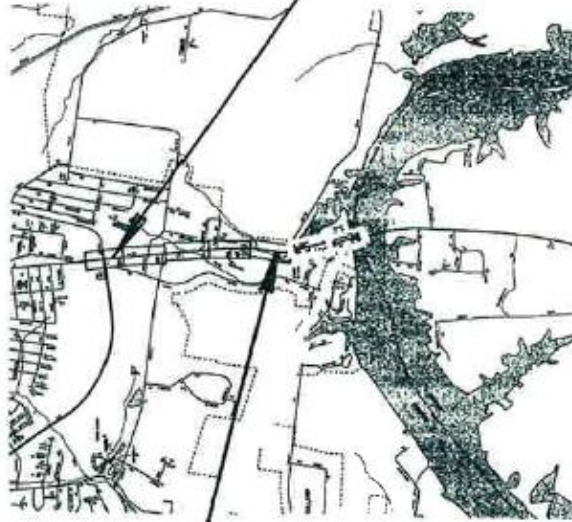
S.R. 109  
FROM: NORTH OF CUMBERLAND RIVER  
TO: S.R. 109 BYPASS IN GALLATIN  
RIGHT-OF-WAY

STATE HIGHWAY NO. 109 F.A.R.S. NO. 109

TENN.	2001	SHEET NO.	1
FILE NO.	HPP/STP-109(14)		
STATE PROJ. NO.	83010-2216-14		



Form G Plans



SCALE: 1" = 2000'

R.O.W. LENGTH.....1.529 MILES

HPP/STP-109(14)  
BEG. PROJ. NO. 83010-2216-14 (R.O.W.)

≈ STA. 139+85 ±

FOR  
PUBLIC  
HEARING  
ONLY

#### SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSTS VALUE.

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION. THE STANDARD SPECIFICATIONS, SPECIAL PROVISIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TOTY ROAD SP. SV. 2

DESIGNER Wade Smith

P.E. NO. 83010-1215-04

Est No. 102216-00

EQUATION	
STATION TO STATION	+
P.L. P.T. STA. 128+51.52 BK. =	1.30'
STA. 128+50.22 AHD. SURV.	
NET EFFECT OF NUMERATION	+1.30'

NO EXCLUSIONS

HPP/STP-109(14)  
END PROJ. NO. 83010-2216-14 (R.O.W.)

≈ STA. 195+50 ±

APPROVED: Wade Smith  
DIRECTOR, DESIGN DIVISION

DATE: \_\_\_\_\_

APPROVED: Wade Smith  
COMMISSIONER

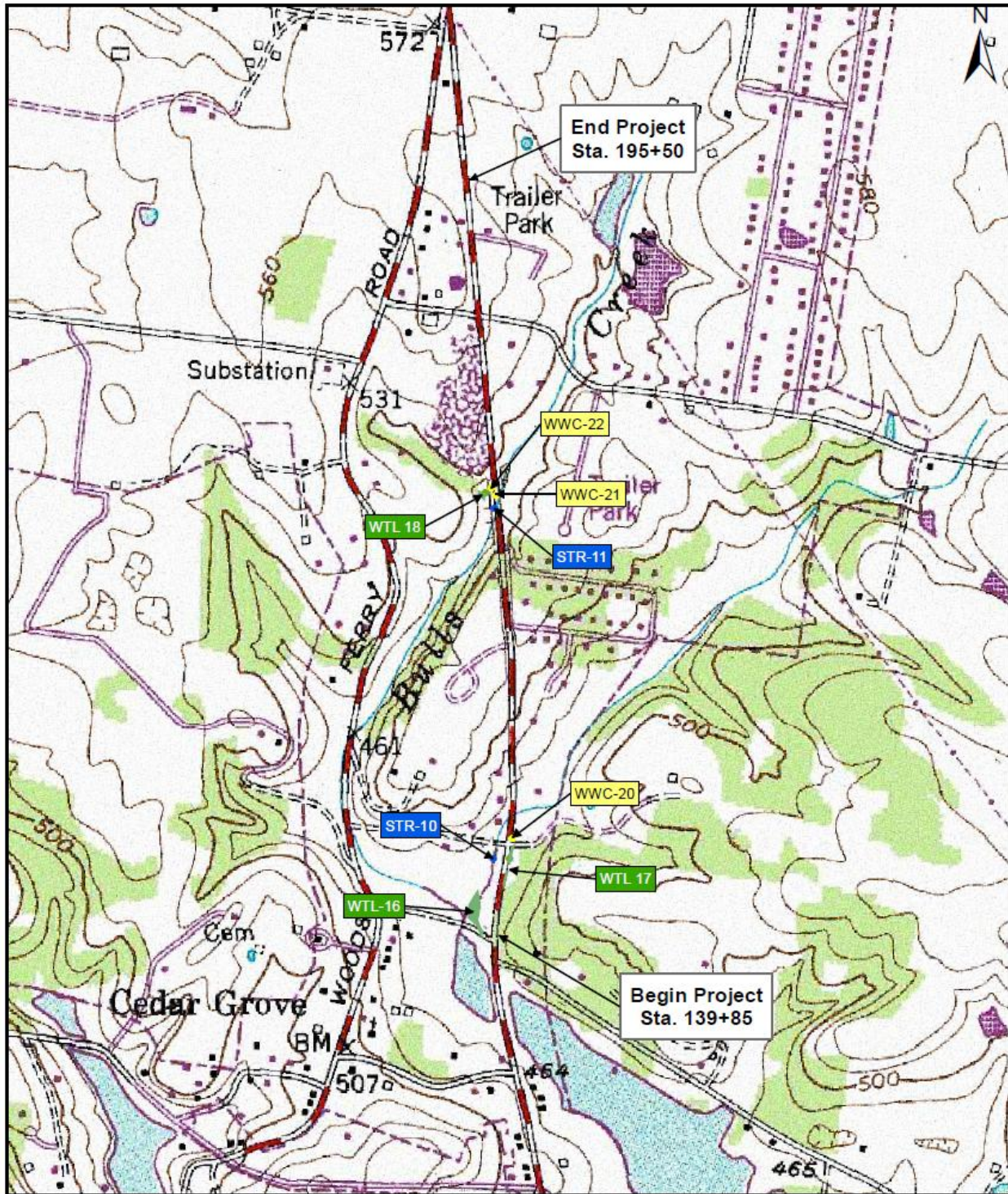
U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ADMINISTRATOR DATE

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<div>03006001,200</div> <div>Feet</div>	ISSUED FOR: TDOT		Form G Map SR-109 North of the Cumberland River Bridge to SR-109 Bypass South of Gallatin Sumner County PE 83010-0219-14; Pin 100286.0		
	ISSUED BY:  CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 405 Duke Drive, Ste 270, Franklin, TN 37067 Columbus, OH * Cincinnati, OH * Indianapolis, IN * Nashville, TN * Chicago, IL St. Louis, MO * Export, PA * Detroit, MI				
DWN. BY: 		SCALE: 1:12,000	DATE: 11-3-2011	PROJECT NO.: 102-211	FIGURE: 1